

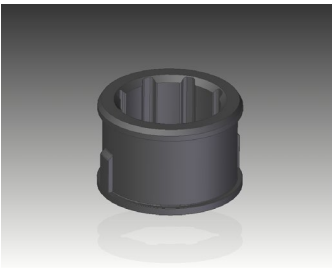
June 2021

Material improvement of 6" and 8" Stainless steel submersible pumps

Due to increased demand for drinking water certified submersible pumps, Franklin Electric introduces several changes to the 6" / 8" pump series to ensure certification by major European drinking water authorities.

All changes listed below will be effective in production starting from July 2021. The part numbers of the pumps will not change.

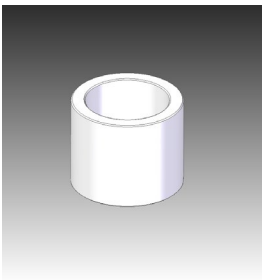
Materials approved for drinking water applications



RUBBER PARTS

All rubber parts will be changed to drinking water approved materials. The rubber material of the O-rings and bearing bushings will be changed from NBR/HNBR to EPDM. This enables the rubber compounds to be approved for DM174, WRAS, KTW, UBA and NSF certificates.

The EPDM material has a hardness comparable to NBR/HNBR and allows a maximum working temperature of + 90 °C for all material pump variants. The material NBR with a maximum pump operating temperature of + 60 °C is still available on request.

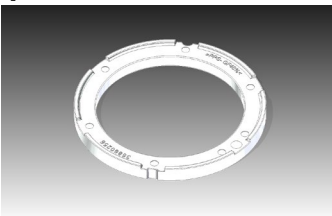


UPPER AND INTERMEDIATE JOURNAL SLEEVE

The material of the upper journal sleeve bushings changes from ceramic-coated stainless steel (with chromium content) or Tungsten Carbide (Widia) to Aluminum Oxide. The intermediate journal sleeve is also changed from Tungsten Carbide to Aluminum Oxide. Tests in our laboratories have shown that the mechanical performance requirements of the new sleeve are guaranteed and that it is comparable to the two current options.

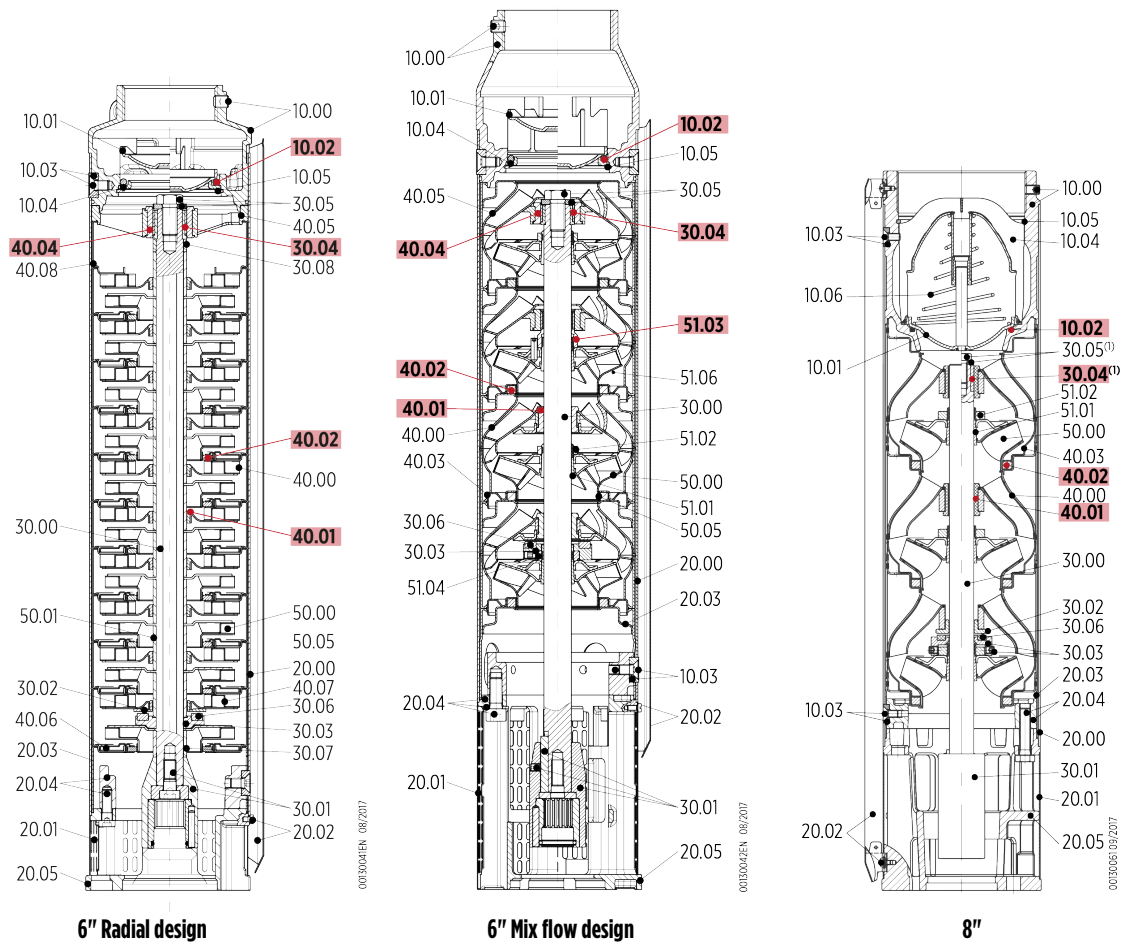
Alumina guarantees good thermal stability and excellent corrosion resistance, both in acid and alkaline environments. In addition, the material offers good oxidation resistance, very good hardness and excellent wear resistance.

Improved mechanical features



WEAR RINGS

For the radial models, the material of the wear rings is changed from PTFE to PPS. The new type of wear ring is 100% compatible with the current diffusers. In addition, the PPS component is less affectable to temperature variations and has better dimensional tolerance than PTFE. These properties have been confirmed by laboratory tests since 2016, as this material has already been successfully integrated in other products.



SPARE PARTS AND MATERIAL

Ref. N	Part description	Old / New	Material	Standard					
				I version		N version		R version	
				ASTM	DIN/EN	ASTM	DIN/EN	ASTM	DIN/EN
10.02	Sealing O-ring	OLD	Rubber	NBR		HNBR		HNBR	
		NEW	Rubber	EPDM		EPDM		EPDM	
30.04	Upper Journal sleeve	OLD	Stainless steel with ceramic coating	AISI 329	1.4460	AISI 329	1.4460	AISI 329	1.4460
		NEW	Aluminum Oxide	Al ₂ O ₃ (99,7%)					
40.01	Secondary bearing bush	OLD	Rubber	NBR		HNBR		HNBR	
		NEW	Rubber	EPDM		EPDM		EPDM	
40.02	Floating neck ring (radial design)	OLD		PTFE					
		NEW		PPS					
40.02	Floating neck ring (mix flow design)	OLD		PTFE					
		NEW		PTFE					
40.04	Bearing bush	OLD	Rubber	NBR		HNBR		HNBR	
		NEW	Rubber	EPDM		EPDM		EPDM	
51.03	Intermediate cone nut (mix flow design)	OLD		Tungsten Carbide					
		NEW	Aluminum Oxide	Al ₂ O ₃ (99,7%)					

For more information about the products, please refer to the catalog on our website at <https://franklinwater.eu/>
Please do not hesitate to contact your Franklin Electric Sales contact for more information.

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